

Applicant : Lim et al.
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Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently Amended) An OLED device comprising:

a substrate having an active region defined thereon, the active region comprises pixels,
the substrate having electrodes defined thereon such that the electrodes are confined to an
electrode region; and

pillars along a first direction on ~~a~~ the substrate, wherein the pillars comprise a tapered profile and grooves between the pillars, the pillars extend outside ~~an active~~ the electrode region of the substrate to prevent electrical shorting.

2. (Original) The OLED device of claim 1 wherein:

the pixels comprise an organic functional layer formed by depositing a solution having organic functional material dissolved in a solvent; and
the pillars are inert to the solvent.

3. (Original) The OLED device of claim 2 wherein the pillars comprise a photosensitive material, the pillars are cured to render the pillars inert to the solvent.

4. (Currently Amended) The OLED device of claim 3 wherein the pillars extend outside the active electrode region to the edges of the substrate.

5. (Currently Amended) The OLED device of claim 1 wherein the pillars comprise a photosensitive material, and the pillars are cured to render the pillars inert to the solvent.

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6. (Currently Amended) The OLED device of claim 5 wherein the pillars extend outside the active electrode region to the edges of the substrate.

7. (Currently Amended) The OLED device of claim 1 wherein the pillars extend outside the active electrode region to the edges of the substrate.

8. (Currently Amended) A flexible OLED device comprising:
a flexible substrate having an active region defined thereon, the active region comprises OLED pixels, the flexible substrate having electrodes defined such that the electrodes are confined to an electrode region; and

pillars along a first direction on a the substrate, wherein the pillars comprise a tapered profile and grooves between the pillars, the pillars extend outside an active the electrode region of the substrate to prevent electrical shorting.

9. (Original) The flexible OLED device of claim 8 wherein the flexible substrate comprises plastic or thin glass.

10. (Original) The OLED device of claim 9 wherein:
the pixels comprise an organic functional layer formed by depositing a solution having organic functional material dissolved in a solvent; and
the pillars are inert to the solvent.

11. (Currently Amended) The OLED device of claim 10 wherein the pillars comprise a photosensitive material, and the pillars are cured to render the pillars inert to the solvent.

12. (Currently Amended) The OLED device of claim 11 wherein the pillars extend outside the active electrode region to the edges of the substrate.

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13. (Currently Amended) The OLED device of claim 10 wherein the pillars comprise a photosensitive material; and the pillars are cured to render the pillars inert to the solvent.

14. (Currently Amended) The OLED device of claim 11 wherein the pillars extend outside the active electrode region to the edges of the substrate.

15. (Currently Amended) The OLED device of claim 10 wherein the pillars extend outside the active electrode region to the edges of the substrate.

16. (Currently Amended) An OLED device comprising:
a substrate having an active region defined thereon, the active region comprises OLED pixels, the substrate having electrodes defined thereon such that the electrodes are confined to an electrode region, wherein an organic functional layer of the OLED pixels is formed by depositing a solution having organic functional material dissolved in a solvent; and
pillars along a first direction on a the substrate, wherein the pillars are inert to the solvent and comprise a tapered profile and grooves between the pillars, the pillars extend outside an the active electrode region of the substrate to prevent electrical shorting.